

What is claimed is:

1. A data reproduction apparatus comprising:

a reproduction means for reproducing a data stored in a recording medium;

a first data information detection means for detecting a first piece of data information proving the rightness or wrongness of reproducing the data as signal, using the address information of the data reproduced by said reproduction means;

a memory means for storing the data;

an error correction means for performing an error detecting/error correcting operation on each of the data proved for the rightness of being reproduced as signal by said first piece of data information and storing the data back in said memory means after the error correcting operation;

a second data information detection means for detecting a second piece of data information indicating a data to be reproduced as signal among the data subjected to the error correcting operation of said error correction means;

a decoding means for decoding the data subjected to the error correcting operation of said error correction means and stored back in said memory means as reproduced signal; and

a control means for controlling the data output from said memory means to said decoding means by referring to the first piece of data information

detected by said first data information detection means and the second piece of data information detected by said second data information detection means.

2. The data reproduction apparatus according to claim 1, wherein said memory means stores said first data information and said second data information on the basis of the unit of each sector of data to be decoded by said decoder along with the data.

3. The data reproduction apparatus according to claim 1, wherein said memory means is a ring buffer adapted to store the data of at least a track reproduced from said recording medium by said reproduction means or the data of at least a track corrected for errors by said error correction means.

4. The data reproduction apparatus according to claim 3, wherein said control means is adapted to control the data output pointer of said ring buffer according to the second data information detected by said second data information detection means.

5. The data reproduction apparatus according to claim 1, further comprising a memory control means for controlling the input/output of data to be stored in said memory means;

 said memory control means being adapted to rearrange the data reproduced from said recording medium by said reproduction means and having a data structure of sequentially arranging information data and parity data and stores them in said memory means.

6. The data reproduction apparatus according to claim 1, wherein said first data information detection means is adapted to detect the information indicating the data to be output as signal to be reproduced according to the sector address information added to each sector of the data reproduced by said reproduction means.

7. The data reproduction apparatus according to claim 1, wherein said recording medium is an optical disk adapted to reproduce data when irradiated with light and said reproduction means is an optical pickup.

8. The data reproduction apparatus according to claim 1, wherein video signals are recorded on said recording medium.

9. The data reproduction apparatus according to claim 1, wherein said second data information detection means is adapted to generate the information to be reproduced by said reproduction means as second data information according to the added information identifying information for identifying the information added to data, the result-of-correction flag indicating the result of error correction of said error correction means and the data category information indicating the category of information; and

 said reproduction control means is adapted to control said reproduction means according to the second data information detected by said second data information detection means.

10. A data reproduction method comprising:

reproducing a data stored in a recording medium;
detecting a first piece of data information proving the rightness or wrongness of reproducing the data as signal by using the address information of the data reproduced by said reproduction means;

performing an error detecting/error correcting operation on each of the data proved for the rightness of being reproduced as signal by said first piece of data information;

detecting a second piece of data information indicating a data to be reproduced as signal among the data subjected to the error correcting operation; and

reproducing the data to be decoded under control by referring to the first piece of data information and the second piece of data information.

11. The data reproduction method according to claim 10, wherein
said first data information and said second data information are stored in memory means; and

the data to be decoded are reproduced under control by referring to the first data information and the second data information stored in said memory means.

12. The data reproduction method according to claim 10, wherein the reproduced data of at least a track or the data corrected for errors of at least a track are stored in a ring buffer.

13. The data reproduction method according to claim 12, wherein the data output pointer of said ring buffer is controlled according to said second data information.

14. The data reproduction method according to claim 10, wherein the data reproduced from said recording medium and having a data structure of sequentially arranging information data and parity data are rearranged and stored in said ring buffer.

15. The data reproduction method according to claim 10, wherein the information indicating the data to be output as signal to be reproduced is detected as first data information according to the sector address information added to each sector of the reproduced data.

16. The data reproduction method according to claim 10, wherein said recording medium is an optical disk adapted to reproduce data when irradiated with light and an optical pickup is sued to reproduce data.

17. The data reproduction method according to claim 10, wherein video signals are recorded on said recording medium.

18. The data reproduction method according to claim 10, wherein the added information identifying information for identifying the information added to data, the result-of-correction flag indicating the result of error correction of said error correction means and the data category information indicating the category of information are generated as second data

information; and

data are decoded by referring to the generated second data information.